

FIG. 1

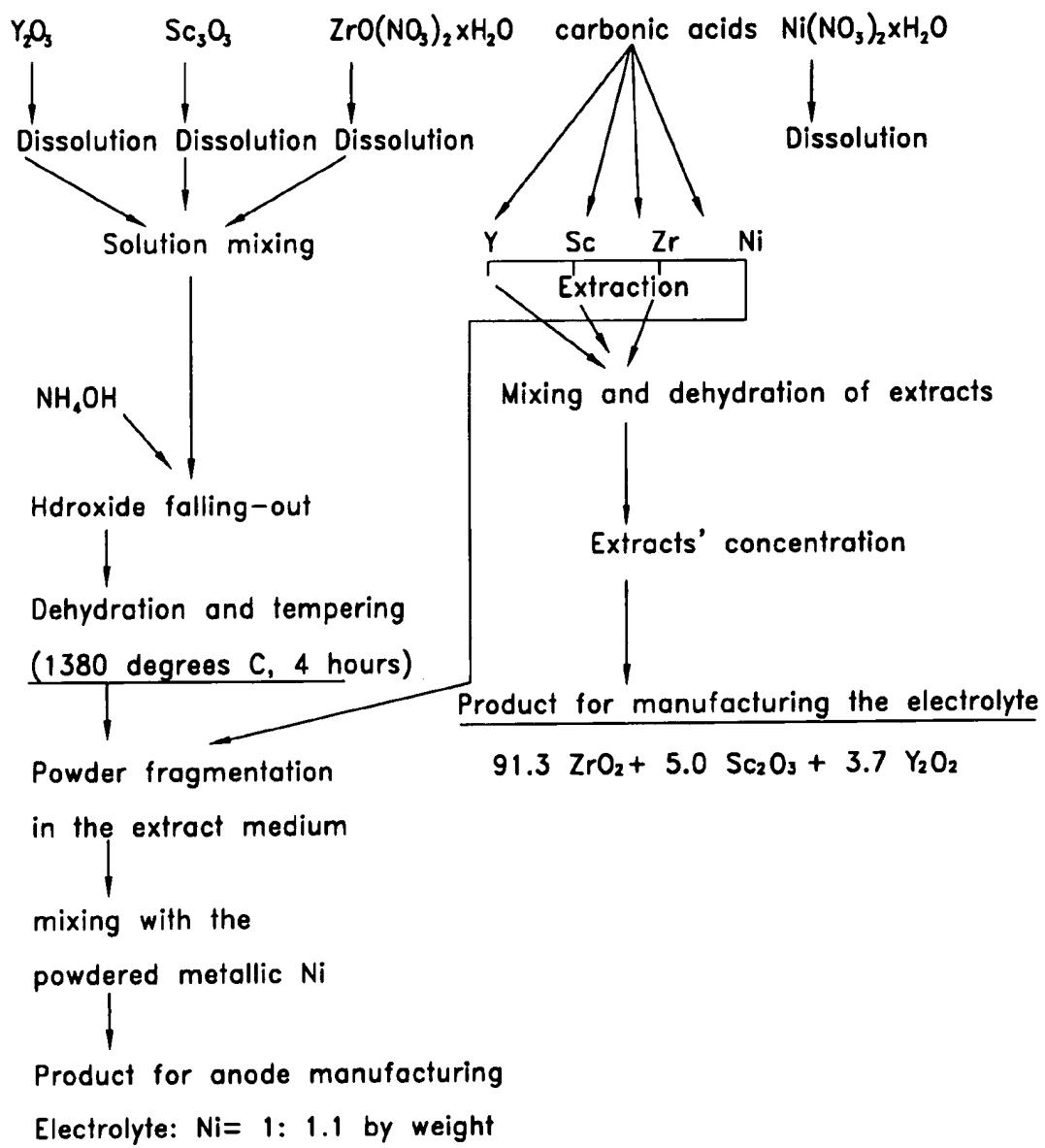


FIG. 2

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Forming the tubular cathode

by the hydrostatic pressuring

Burning out the binding agent, caking

T~1350 degrees C

Mixture of Cr, La, St carboxilates

Manufacturing the interface layer and current passage

Mixture of Ce, Sm/Gd, Zr, Y, Sc carboxilates

Manufacturing the electrode

Anode material YSZ GSC/Ni<sub>met</sub> Co<sub>met</sub>

Manufacturing the anode

Ni or Co carboxilates

Manufacturing the electrical insulating

layer

layer

Material for electrical insulating

layer

Mg Al carboxilates

(MgAl<sub>2</sub>O<sub>4</sub>)(YSZ)

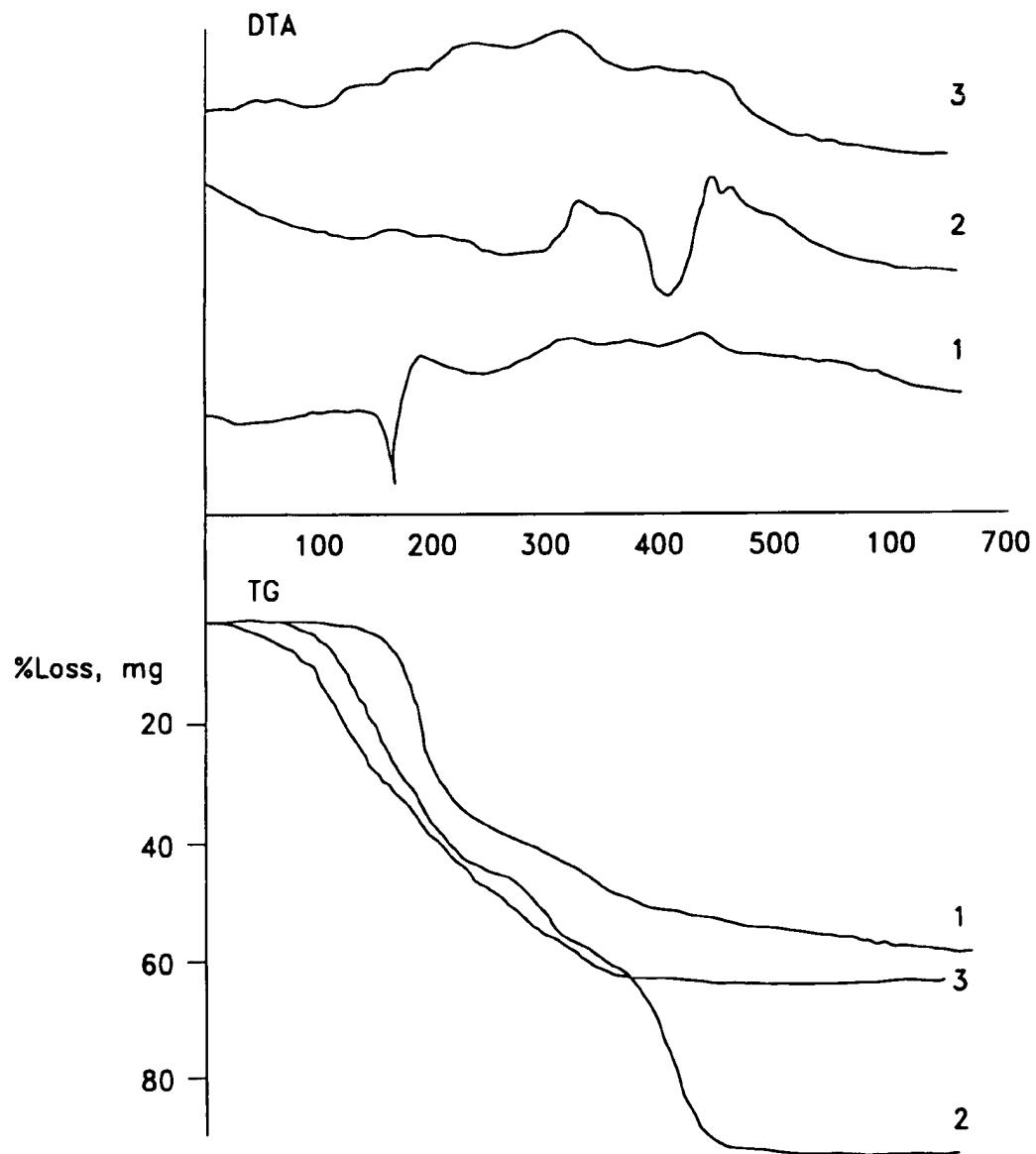
Thermal treatment

T~1250 degrees C

A single fuel cell

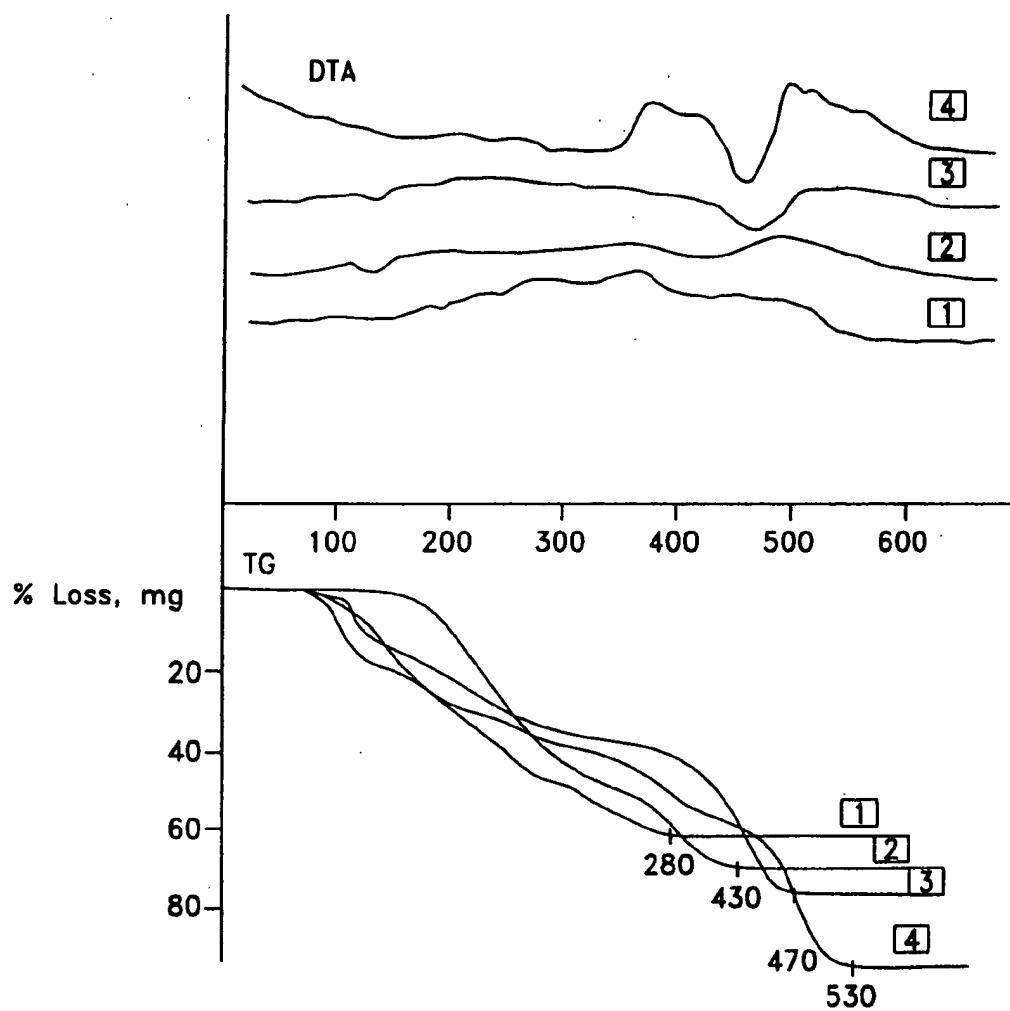
**FIG. 3**

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**FIG. 4**

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**FIG. 5**

*METHOD FOR MANUFACTURING A SINGLE HIGH-TEMPERATURE FUEL CELL AND...*

*Sevastyanov et al.*

*Appl. No.: 10/010,083 Atty Docket: VALER6.001C1*

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Measusrement of the signal profile  
Length = 30.7  $\mu\text{m}$   
Average Length = 30.7  $\mu\text{m}$   
X = 69.8  $\mu\text{m}$   
Y = 131.8  $\mu\text{m}$



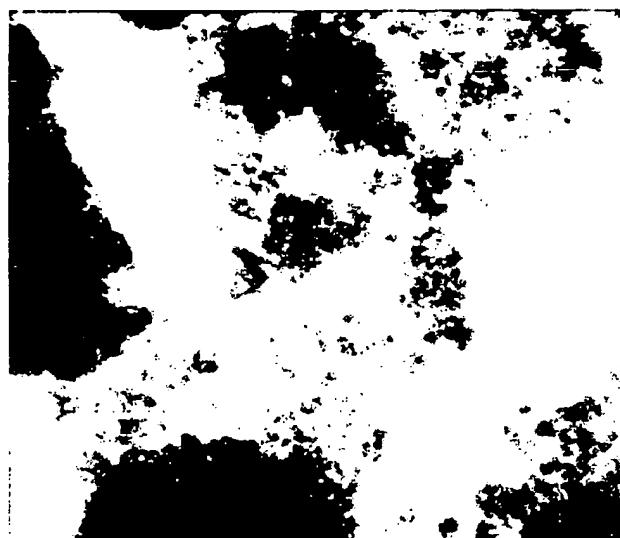
**FIG. 9**

*METHOD FOR MANUFACTURING A SINGLE HIGH-TEMPERATURE FUEL CELL AND...*

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**FIG. 10**

*METHOD FOR MANUFACTURING A SINGLE HIGH-TEMPERATURE FUEL CELL AND...*

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**FIG. 11**